

Application Number 10/693,008
Amendment in Response to Office Action mailed February 5, 2007

RECEIVED
CENTRAL FAX CENTER

APR 05 2007

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-5 (Canceled).

Claim 6 (Currently Amended): A method comprising:

activating telemetry circuitry in a programmer for a medical device, wherein the programmer includes an internal antenna and an external antenna, wherein the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna, and wherein the programmer comprises a display and a display lighting source;

disabling the display in the programmer during activation of the telemetry circuitry to reduce electrical interference when the telemetry circuitry performs telemetry via the internal antenna; and

enabling the display when the telemetry circuitry performs telemetry via the external antenna.

Claims 7-16 (canceled).

Application Number 10/693,008

Amendment in Response to Office Action mailed February 5, 2007

Claim 17 (Currently Amended): A programmer comprising:

an internal antenna coupled to a programmer housing;

an external antenna coupled to the programmer housing;

telemetry circuitry within the housing to perform telemetry with a medical device via one of the internal antenna and the external antenna;

a display within the housing to present information;

a display lighting source; and

control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference when the telemetry circuitry performs telemetry via the internal antenna,

~~wherein the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna, and the control circuitry enables the display when the telemetry circuitry performs telemetry via the external antenna.~~

Claims 18-26 (Canceled).

Claim 27 (Currently Amended): A method comprising:

activating telemetry circuitry in a programmer for an implantable neurostimulator, wherein the programmer includes an internal antenna, an external antenna, and the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna, and wherein the programmer comprises a display and a display lighting source;

communicating with the neurostimulator via the telemetry circuitry;

disabling the display in the programmer during communication via the telemetry circuitry to reduce electrical interference when the telemetry circuitry performs telemetry via the internal antenna; and

enabling the display when the telemetry circuitry circuit performs telemetry via the external antenna ~~and disabling the display when the telemetry circuit performs telemetry via the internal antenna.~~

Application Number 10/693,008
Amendment in Response to Office Action mailed February 5, 2007

Claim 28 (Currently Amended): A programmer for an implantable neurostimulator, the programmer comprising:

an antenna coupled to a programmer housing, wherein the antenna includes an internal antenna, the programmer further comprising an external antenna;

telemetry circuitry within the housing to perform telemetry with the neurostimulator via one of the internal antenna and the external antenna ~~the antenna;~~

a display within the housing to present information;

a display lighting source; and

control circuitry to disable the display in the programmer during the telemetry to reduce electrical interference when the telemetry circuit performs telemetry via the internal antenna, wherein the control circuitry enables the display when the telemetry circuit performs telemetry via the external antenna.

Claim 29 (Previously Presented): The programmer of claim 28, wherein the programmer is a handheld, portable device.

Claims 30-35 (Canceled).

Claim 36 (Previously Presented): The programmer of claim 28, wherein the control circuitry disables electronics on substantially an entire circuit board on which the display is mounted.

Claim 37 (Canceled).

Application Number 10/693,008
Amendment in Response to Office Action mailed February 5, 2007

Claim 38 (Previously Presented): A method comprising:

activating telemetry circuitry in a programmer for an implantable medical device, wherein the programmer includes a display, an internal antenna and an external antenna, wherein the telemetry circuitry performs telemetry via one of the internal antenna and the external antenna;

disabling the display when the telemetry circuitry performs telemetry via the internal antenna; and

enabling the display when the telemetry circuitry performs telemetry via the external antenna.

Claim 39 (Previously Presented): The method of claim 38, wherein the implantable medical device includes an implantable electrical stimulator.

Claim 40 (Previously Presented): The method of claim 38, wherein disabling the display includes disabling electronics on substantially an entire circuit board on which the display is mounted.

Claim 41 (Previously Presented): A programmer for an implantable medical device, the programmer comprising:

an internal antenna mounted within the programmer housing;

an external antenna coupled to a programmer housing;

telemetry circuitry within the housing to perform telemetry with an implantable medical device via the internal antenna or the external antenna;

a display within the housing to present information; and

control circuitry that disables the display when the telemetry circuitry performs telemetry via the internal antenna, and enables the display when the telemetry circuitry performs telemetry via the external antenna.

Claim 42 (Previously Presented): The programmer of claim 41, wherein the telemetry circuitry is configured to perform telemetry with an implantable electrical stimulator.

Application Number 10/693,008
Amendment in Response to Office Action mailed February 5, 2007

Claim 43 (Previously Presented): The programmer of claim 41, wherein the control circuitry disables electronics on substantially an entire circuit board on which the display is mounted.

Claim 44 (New): The method of claim 6, wherein disabling the display includes disabling circuitry associated with the display when the telemetry circuitry performs the telemetry via the internal antenna.

Claim 45 (New): The method of claim 6, wherein the display resides on a circuit board with display circuitry to drive the display, and disabling the display includes disabling the display and the display circuitry.

Claim 46 (New): The method of claim 6, further comprising enabling the display when the telemetry is not activated.

Claim 47 (New): The method of claim 6, wherein the medical device is an implantable neurostimulator, and wherein the telemetry circuitry transmits signals to the implantable neurostimulator via the internal antenna and processes signals received from the implantable neurostimulator via the internal antenna, the method further comprising enabling the display when the telemetry circuitry is not activated.

Claim 48 (New): The method of claim 6, wherein the display is a liquid crystal display.

Claim 49 (New): The method of claim 6, wherein the telemetry circuitry is on a first circuit board and the display is on a second circuit board.

Claim 50 (New): The method of claim 6, wherein the internal antenna defines an aperture, and the programmer includes a battery bay extending at least partially into the aperture.

Application Number 10/693,008
Amendment in Response to Office Action mailed February 5, 2007

Claim 51 (New): The method of claim 6, wherein the telemetry circuitry is coupled to the external antenna via a cable, the method including selectively communicating with the medical device via one of the internal antenna and the external antenna.

Claim 52 (New): The method of claim 6, wherein the medical device is an implanted neurostimulator.

Claim 53 (New): The method of claim 6, wherein disabling the display includes disabling electronics on substantially an entire circuit board on which the display is mounted.

Claim 54 (New): The programmer of claim 17, wherein the control circuitry disables circuitry associated with the display when the telemetry circuit performs the telemetry via the internal antenna.

Claim 55 (New): The programmer of claim 17, wherein the display resides on a circuit board with display circuitry to drive the display, and the control circuitry disables the display and the display circuitry.

Claim 56 (New): The programmer of claim 17, wherein the control circuitry enables the display when the telemetry is not activated.

Claim 57 (New): The programmer of claim 17, wherein the telemetry circuitry transmits signals to the medical device via the internal antenna and processes signals received from the medical device via the internal antenna, and wherein the control circuitry enables the display when the telemetry is not activated.

Claim 58 (New): The programmer of claim 17, wherein the display is a liquid crystal display.

Application Number 10/693,008
Amendment in Response to Office Action mailed February 5, 2007

Claim 59 (New): The programmer of claim 17, further comprising:

a first circuit board; and

a second circuit board, wherein the internal antenna and the telemetry circuitry reside on the first circuit board and the display resides on the second circuit board.

Claim 69 (New): The programmer of claim 17, wherein the telemetry circuitry is coupled to the external antenna via a cable, and the control circuitry selects one of the internal antenna and the external antenna for telemetry with the medical device.

Claim 61 (New): The programmer of claim 17, wherein the medical device is an implanted neurostimulator.

Claim 62 (New): The programmer of claim 17, wherein the control circuitry disables electronics on substantially an entire circuit board on which the display is mounted.

Claim 63 (New): The method of claim 27, wherein the programmer is a handheld, portable device.

Claim 64 (New): The method of claim 27, wherein the telemetry circuitry transmits signals to the implantable neurostimulator via the internal antenna and processes signals received from the implantable neurostimulator via the internal antenna, the method further comprising enabling the display when the telemetry circuitry is not activated.

Claim 65 (New): The method of claim 27, wherein disabling the display includes disabling electronics on substantially an entire circuit board on which the display is mounted.